

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
28 December 2000 (28.12.2000)

PCT

(10) International Publication Number
WO 00/78632 A1

(51) International Patent Classification⁷: **B65D 51/28**,
79/00, 47/20

(21) International Application Number: PCT/GB00/02285

(22) International Filing Date: 22 June 2000 (22.06.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
9914414.9 22 June 1999 (22.06.1999) GB
9915487.4 3 July 1999 (03.07.1999) GB

(71) Applicant (for all designated States except US): **ROCEP LUSOL HOLDINGS LIMITED** [GB/GB]; Roccep Business Park, Kings Inch Road, Deanpark, Renfrew PA4 8XY (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **FRUTIN, Bernard, Derek** [GB/GB]; Jaapston Farm, By Uplawmoor, Renfrewshire G78 3BL (GB).

(74) Agent: **MURGITROYD & COMPANY**; 373 Scotland Street, Glasgow G5 8QA (GB).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

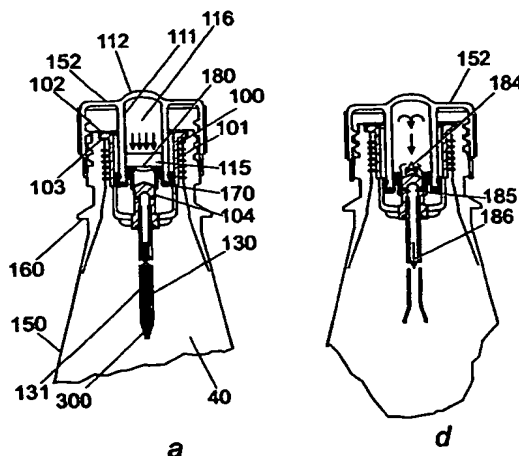
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- With international search report.
- Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **DEVICE FOR INTRODUCING A PREDETERMINED DOSE OF ADDITIVE INTO A PACKAGED LIQUID**



(57) Abstract: The invention relates to an apparatus for introducing an additive material (131) in the form of a liquid or granulated solid into a liquid (40) stored in a first container (150). The additive component (131) is stored separately from the liquid (40) in a dip tube or conduit (130). The dip tube (130) is a resilient hollow tubular member and has a valve (300) at one end, adapted to open when the dip tube (130) is subject to internal pressure to allow the passage of said additive material (131) therethrough. The valve prevents the additive material (131) from leaking or dripping into the liquid (40) in the first container (150) when the dip tube and first container are at the same pressure, but which allows the passage of liquid or pourable solid additive from the dip tube (130) into the liquid (40) in the first container (150) when the dip tube is pressurised by introduction of propellant fluid (116, 516). A second valve (520) can be used to prevent the additive material (131) from leaking or dripping into a second container (150) which is the source of the pressurised propellant fluid (116, 516).

WO 00/78632 A1

INTERNATIONAL SEARCH REPORT

Inte. onal Application No

PCT/GB 00/02285

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65D51/28 B65D79/00 B65D47/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 56678 A (HAWTHORNE DONN BEDE ;CARLTON & UNITED BREWERIES (AU)) 17 December 1998 (1998-12-17)	1-4, 14
Y	the whole document	5-11, 13, 16
Y	US 5 725 896 A (BANKS ANTHONY J) 10 March 1998 (1998-03-10)	5, 6, 16
Y	the whole document	
Y	WO 97 21605 A (ROCEP LUSOL HOLDINGS ;FRUTIN BERNARD D (GB)) 19 June 1997 (1997-06-19)	7
Y	the whole document	
Y	US 4 592 493 A (SMITH ROBERT C) 3 June 1986 (1986-06-03)	8-11, 13
A	the whole document	12
	-/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

3 October 2000

Date of mailing of the international search report

20/10/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Pernice, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/02285

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 835 840 A (GUINNESS BREWING WORLDWIDE) 15 April 1998 (1998-04-15) column 13, line 4 - line 43; figures 7,8 -----	1-7
A	US 4 917 267 A (LAVERDURE ROLAND J A) 17 April 1990 (1990-04-17) the whole document -----	8-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

Int. .onal Application No

PCT/GB 00/02285

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9856678 A	17-12-1998	AU 7751498 A AU 7751598 A WO 9856679 A	30-12-1998 30-12-1998 17-12-1998
US 5725896 A	10-03-1998	AT 153961 T AU 684488 B AU 5864194 A CA 2154651 A DE 69403628 D DE 69403628 T DK 680448 T EP 0680448 A ES 2105627 T WO 9416966 A	15-06-1997 18-12-1997 15-08-1994 04-08-1994 10-07-1997 29-01-1998 29-12-1997 08-11-1995 16-10-1997 04-08-1994
WO 9721605 A	19-06-1997	AU 1182197 A EP 0958187 A	03-07-1997 24-11-1999
US 4592493 A	03-06-1986	NONE	
EP 0835840 A	15-04-1998	GB 2293166 A AU 689619 B AU 3064195 A CA 2158308 A DE 69503446 D DE 69503446 T DE 69514842 D DE 69514842 T EP 0701966 A ES 2118506 T ES 2143828 T NZ 272996 A	20-03-1996 02-04-1998 28-03-1996 16-03-1996 20-08-1998 15-04-1999 02-03-2000 06-07-2000 20-03-1996 16-09-1998 16-05-2000 29-01-1997
US 4917267 A	17-04-1990	NONE	

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 00/02285

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Pernice, C

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/02285

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

International Application No

PCT/GB 00/02285

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WO 9721605 A	19-06-1997	AU 1182197 A EP 0958187 A	03-07-1997 24-11-1999
US 4592493 A	03-06-1986	NONE	
EP 0835840 A	15-04-1998	GB 2293166 A AU 689619 B AU 3064195 A CA 2158308 A DE 69503446 D DE 69503446 T DE 69514842 D DE 69514842 T EP 0701966 A ES 2118506 T ES 2143828 T NZ 272996 A	20-03-1996 02-04-1998 28-03-1996 16-03-1996 20-08-1998 15-04-1999 02-03-2000 06-07-2000 20-03-1996 16-09-1998 16-05-2000 29-01-1997
US 4917267 A	17-04-1990	NONE	

PATENT COOPERATION TREATY

PCT

REC'D 21 MAR 2001

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PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

14

Applicant's or agent's file reference P24038A/LSA/GMU		FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/GB00/02285	International filing date (day/month/year) 22/06/2000	Priority date (day/month/year) 22/06/1999	
International Patent Classification (IPC) or national classification and IPC B65D51/28			
Applicant ROCEP LUSOL HOLDINGS LIMITED et al			

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 5 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 12/12/2000	Date of completion of this report 19.03.2001
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized officer Janosch, J Telephone No. +49 89 2399 7525 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02285

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-19 as originally filed

Claims, No.:

1-16 as originally filed

Drawings, sheets:

1/3-3/3 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02285

☐ the drawings, sheets:

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes:	Claims	1-16
	No:	Claims	
Inventive step (IS)	Yes:	Claims	1-16
	No:	Claims	
Industrial applicability (IA)	Yes:	Claims	1-16
	No:	Claims	

2. Citations and explanations
see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:
see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:
see separate sheet

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: WO 98 56678 A.

2. Document D1, which is considered to represent the most relevant state of the art, discloses (cf. claims 1 and 20, page 4, lines 5-11 and 16-20, page 5, lines 4-7, 27-29, page 6, lines 14-30, page 8, lines 16-22, figures 6-7c, 11-13c) an apparatus for introducing an additive material into a first liquid from which the subject-matter of claim 1 differs in that the conduit contains an additive material adapted to be expelled from the conduit into the first liquid by the entry of the propellant fluid into the conduit on release of the releasable closure. Consequently the subject-matter of claim 1 fulfills the requirement of Art. 33(2) PCT.

The problem to be solved by the present invention may therefore be regarded as to provide an alternative conduit.

The solution proposed in claim 1 of the present application can be considered as involving an inventive step (Article 33(3) PCT), since the cited prior art does not provide any hint that suggests the conduit as defined in claim 1 to the skilled person. From the cited prior art it is not suggested to provide an additive material in the conduit.

3. Claims 2-16 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
4. For completeness sake it shall be indicated, that the British Patent Application GB 98 23 578, cited in the description, was filed 29 October 1998. The GB 98 23 578 might be or become relevant state of the art, according to the different national or regional patent laws. At present it appears that GB 98 23 578 discloses all features of claim 1.

Re Item VII

Certain defects in the international application

1. Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
2. The features of the claims 1-16 are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain observations on the international application

1. The application is not clear (Art. 6 PCT), since the reference sign 183 added in figure 2 is not correctly placed. It seems to be identical with reference sign 182, thus constituting a contradiction to the description. According to page 13, lines 1-9 and figures 1c and 1d, reference sign 183 relates to the lower sealing rib, which still seals in figure 1d below the apertures 108.

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

MURGITROYD & COMPANY
373 Scotland Street
Glasgow G5 8QA
GRANDE BRETAGNE

**MURGITROYD
& COMPANY**

22 MAR 2001

COMP
GMU

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

Applicant's or agent's file reference P24038A/LSA/GMU		IMPORTANT NOTIFICATION	
International application No. PCT/GB00/02285	International filing date (day/month/year) 22/06/2000	Priority date (day/month/year) 22/06/1999	
Applicant ROCEP LUSOL HOLDINGS LIMITED et al			

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.

2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.

3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/ <div style="display: flex; align-items: center;"> <div> European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 </div> </div>	Authorized officer Buckley, D Tel. +49 89 2399-2082
--	--



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P24038A/LSA/GMU	FOR FURTHER ACTION		See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/GB00/02285

I. Basis of the report

1. This report has been drawn on the basis of *(substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments (Rules 70.16 and 70.17).):*

Description, pages:

1-19 as originally filed

Claims, No.:

1-16 as originally filed

Drawings, sheets:

1/3-3/3 as originally filed

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see separate sheet

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**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/GB00/02285

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1. Reference is made to the following document:

D1: WO 98 56678 A.

2. Document D1, which is considered to represent the most relevant state of the art, discloses (cf. claims 1 and 20, page 4, lines 5-11 and 16-20, page 5, lines 4-7, 27-29, page 6, lines 14-30, page 8, lines 16-22, figures 6-7c, 11-13c) an apparatus for introducing an additive material into a first liquid from which the subject-matter of claim 1 differs in that the conduit contains an additive material adapted to be expelled from the conduit into the first liquid by the entry of the propellant fluid into the conduit on release of the releasable closure. Consequently the subject-matter of claim 1 fulfills the requirement of Art. 33(2) PCT.

The problem to be solved by the present invention may therefore be regarded as to provide an alternative conduit.

The solution proposed in claim 1 of the present application can be considered as involving an inventive step (Article 33(3) PCT), since the cited prior art does not provide any hint that suggests the conduit as defined in claim 1 to the skilled person. From the cited prior art it is not suggested to provide an additive material in the conduit.

3. Claims 2-16 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.
4. For completeness sake it shall be indicated, that the British Patent Application GB 98 23 578, cited in the description, was filed 29 October 1998. The GB 98 23 578 might be or become relevant state of the art, according to the different national or regional patent laws. At present it appears that GB 98 23 578 discloses all features of claim 1.

Re Item VII

Certain defects in the international application

1. Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
2. The features of the claims 1-16 are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
3. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.

Re Item VIII

Certain observations on the international application

1. The application is not clear (Art. 6 PCT), since the reference sign 183 added in figure 2 is not correctly placed. It seems to be identical with reference sign 182, thus constituting a contradiction to the description. According to page 13, lines 1-9 and figures 1c and 1d, reference sign 183 relates to the lower sealing rib, which still seals in figure 1d below the apertures 108.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P24038A/GMU	FOR FURTHER ACTION <small>see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.</small>	
International application No. PCT/GB 00/ 02285	International filing date (day/month/year) 22/06/2000	(Earliest) Priority Date (day/month/year) 22/06/1999
Applicant ROCEP LUSOL HOLDINGS LIMITED		

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This International Search Report consists of a total of 03 sheets.
☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

- ☐ the text is approved as submitted by the applicant.
- ☒ the text has been established by this Authority to read as follows:

DEVICE FOR INTRODUCING A PREDETERMINED DOSE OF ADDITIVE INTO A PACKAGED LIQUID

5. With regard to the abstract,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☒ because this figure better characterizes the invention.

1a, 1d

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB 00/02285

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B65D51/28 B65D79/00 B65D47/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 56678 A (HAWTHORNE DONN BEDE ;CARLTON & UNITED BREWERIES (AU)) 17 December 1998 (1998-12-17)	1-4, 14
Y	the whole document	5-11, 13, 16
Y	US 5 725 896 A (BANKS ANTHONY J) 10 March 1998 (1998-03-10) the whole document	5, 6, 16
Y	WO 97 21605 A (ROCEP LUSOL HOLDINGS ;FRUTIN BERNARD D (GB)) 19 June 1997 (1997-06-19) the whole document	7
Y	US 4 592 493 A (SMITH ROBERT C) 3 June 1986 (1986-06-03)	8-11, 13
A	the whole document	12
	--- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

3 October 2000

Date of mailing of the international search report

20/10/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 00/02285

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 835 840 A (GUINNESS BREWING WORLDWIDE) 15 April 1998 (1998-04-15) column 13, line 4 - line 43; figures 7,8 -----	1-7
A	US 4 917 267 A (LAVERDURE ROLAND J A) 17 April 1990 (1990-04-17) the whole document -----	8-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB 00/02285

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9856678	A	17-12-1998	AU 7751498 A AU 7751598 A WO 9856679 A	30-12-1998 30-12-1998 17-12-1998
US 5725896	A	10-03-1998	AT 153961 T AU 684488 B AU 5864194 A CA 2154651 A DE 69403628 D DE 69403628 T DK 680448 T EP 0680448 A ES 2105627 T WO 9416966 A	15-06-1997 18-12-1997 15-08-1994 04-08-1994 10-07-1997 29-01-1998 29-12-1997 08-11-1995 16-10-1997 04-08-1994
WO 9721605	A	19-06-1997	AU 1182197 A EP 0958187 A	03-07-1997 24-11-1999
US 4592493	A	03-06-1986	NONE	
EP 0835840	A	15-04-1998	GB 2293166 A AU 689619 B AU 3064195 A CA 2158308 A DE 69503446 D DE 69503446 T DE 69514842 D DE 69514842 T EP 0701966 A ES 2118506 T ES 2143828 T NZ 272996 A	20-03-1996 02-04-1998 28-03-1996 16-03-1996 20-08-1998 15-04-1999 02-03-2000 06-07-2000 20-03-1996 16-09-1998 16-05-2000 29-01-1997
US 4917267	A	17-04-1990	NONE	

PCT

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1a, 1d

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Pernice, C

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			DE 69514842 T	06-07-2000
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			ES 2118506 T	16-09-1998
			ES 2143828 T	16-05-2000
			NZ 272996 A	29-01-1997
US 4917267	A	17-04-1990	NONE	

PCT

INTERNATIONAL SEARCH REPORT

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1a, 1d

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☒ because this figure better characterizes the invention.